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### Plot method for RDynOut objects.
plot.RDynOut <-
  function(RDout, formula=NULL, type=c("o", "b", "p", "l", "spline",
    "only.spline"),
    main=NULL, sub=NULL, col=c("black", "red", "green", "blue"),
    lty=c(1,1,1,1), pch=c(1,2,3,4))
{
  if(is.null(formula))
    stop("You must indicate variables to plot with a formula")
  if (length(formula[[3]]) > 1)
    stop("Only one variable is allowed on the right hand side of the formula")
  LHSvars <- all.vars(formula[[2]])
  RHSvar <- all.vars(formula[[3]])
  ## Realistically, there is no way to plot more than 4 variables
  if (length(LHSvars) > 4)
    stop("Don't try to plot more than 4 variables on the y-axis")
  ## Are these all in the output?
  if (!all(c(LHSvars, RHSvar) %in% dimnames(RDout$result)[[2]]))
    stop("Variables are specified that are not in the output")
  type <- match.arg(type)
  doSpline <- type %in% c("spline", "only.spline")
  if (doSpline) {
    if (type == "spline") {
      type <- "p"
    } else type <- "n"
  }
  opar <- par(mar=c(5,4*length(LHSvars),4,2)+0.1, mgp=c(2,1,0), xpd=NA,
    no.readonly=TRUE)
  on.exit(par(opar))

  plot(RDout$result[,RHSvar], RDout$result[,LHSvars[1]], type=type,
    xlab=RHSvar,
    ylab=LHSvars[1], main=main, sub=sub, col=col[1], lty=lty[1], pch=pch[1])
  llx <- (par("usr")[4] - par("usr")[3])
  llx <- (par("usr")[2] - par("usr")[1])
  Midy <- (par("usr")[3] + par("usr")[4])/2
  xlineht <- par("csi")/par("pin")[1]*llx
  xleg <- par("usr")[1] - 2.5*xlineht
  labwidth <- strwidth(LHSvars[1], "inch")/par("pin")[2]*llx
  yleg0 <- Midy + 0.5*labwidth + 0.025*llx
  yleg1 <- yleg0 + 0.1*llx
  segments(xleg, yleg0, xleg, yleg1, col=col[1], lty=lty[1])
  points(c(xleg, xleg), c(yleg0, yleg1), col=col[1], pch=pch[1])
  if (doSpline) {
    lines(spline(RDout$result[,RHSvar], RDout$result[,LHSvars[1]], n=101))
  }
  if (length(LHSvars) > 1) {
    Max1 <- max(RDout$result[,LHSvars[1]])
    Min1 <- min(RDout$result[,LHSvars[1]])
    for (i in 2:length(LHSvars)) {
      y <- RDout$result[,LHSvars[i]]
      pretty.y <- pretty(y)
      yMax <- max(y)
      yMin <- min(y)
      y <- (y - yMin)/yMax
      y <- y*(Max1 - Min1) + Min1
    }
  }
}

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AT <- (pretty.y - yMin)/yMax*(Max1 - Min1) +
  Min1
if (type != "n") points(RDout$result[,RHSvar], y,
  type=type, col=col[i], pch=pch[i])
if (doSpline) lines(spline(RDout$result[,RHSvar], y,
  n=101), col=col[i], lty=lty[i])
axis(side=2, at=AT, labels=as.character(pretty.y), line=4*(i-1))
title(ylab=LHSvars[i], line=4*i-2)
xleg <- par("usr")[1] - (4*i-1.5)*xlineht
labwidth <- strwidth(LHSvars[i], "inch")/par("pin")[2]*lly
yleg0 <- Midy + 0.5*labwidth + 0.025*lly
yleg1 <- yleg0 + 0.1*lly
segments(xleg,yleg0,xleg,yleg1,col=col[i], lty=lty[i])
points(c(xleg,xleg),c(yleg0,yleg1),col=col[i],pch=pch[i])

}

}

}

```